**MYP Year 1 Computer Technology Project**

Title: What a genius! Total hours: 18

**Introduction:**

In this project you are going to focus on human creativity and the things humans have produced related to technology. You will have to examine how these products have changed our lives. This will be an opportunity for you to appreciate human capacity to invent, create, transform, enjoy and improve the quality of life. You will be given a country or continent and you will have to find a genius there and a product that they made.

**Brief:**

You will work as part of a team (4 in a team). As a team you will explore the different ideas and choose the idea you would like to focus on. You will then create a set of cards (6) that contain details of the genius and the product. You will use these cards to introduce the genius and explain the product to your classmates.

* Each card should have a title.
* Each card should have a relevant image/s.
* Each card should have the flag of the country the genius is from.
* Each card must have all of the team members’ names on it.
* All the cards must be the same size (6cm x 9.5cm)
* The cards must have a consistent layout that will allow us to identify the team’s cards. (colours, flag placement, font size, colours and font face, image size, amount of images or placement.
* INDIVIDUAL: Each team member must create one of the following cards:   
  **You are a genius!** – The name of the person who created it and some information about them.

**Invention** – Explain what the product and is what it does.  
**Create** – Explain who created the product, why the product was created and how this happened.  
**Transform** – Explain all the differences (advantages and disadvantages) that this product has made to our lives and society (compare with what we used to do – history).

* TEAM: The team mustcreate a card called **Team opinion** – Who the team members are (text and pictures) and what each of the team members thinks about the product.

**Country of genius** – name, map, flag, history, location, religion and language.

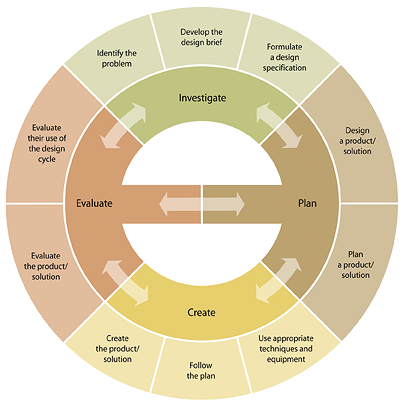
**Resources:**

Computer  
Printer  
White card to print out the cards  
Access to the Internet for Research  
*Software:* Microsoft Publisher, Internet Explorer

**AOI: Human Ingenuity (Homo faber)**

Every MYP project focus on an area called “Area of Interaction”. The Area of Interaction encourages you to reflect on a certain area. This project focuses on **Human Ingenuity** which is about human creativity. We look at why and how humans create and the consequences of the creation. We will be analysing a product that a human has created and looking at what changes it has made to us. This is so we can appreciate the designers and those who develop these new technologies.

In the projects we do in computer class, we must follow the design cycle. You have completed your first project and were introduced to the design cycle. This is your second project. We are going to go through all of the stages of the design cycle.

At the beginning of each stage, you will have a meeting to record what the action points are. This document must be submitted with your documentation.

**Who is your team leader?**   
**Who is in your team?**

1.  
2.  
3.

**Stage 1: Investigate**

Investigation is an important part of the design cycle. You need to identity the problem and develop a design brief.

Each team member will need to complete these sections. Have a meeting to discuss these sections as a team then complete each stage as an individual. Don’t forget to document the meeting.

**1. Problem:** What is the problem? Why are you creating these cards? What are these cards supposed to do? Who are you creating the cards for?

**2. Design brief:** Write a few sentences explaining what you have been asked to do. Explain what you are going to do generally and how you are going to divide the work amongst your team mates. Tell us who the team members are and who is the team leader. Remember the team leader is responsible for ensuring the team stays on track. Can you handle the responsibility?

**3. Research:** Research the different countries to find products you might want to research. Make sure that you research at least 8 different products (2 for each team member). Write a paragraph in your own words about each product. Copy and paste the URL that you used for the text and images.

As a group, decide which genius you are going to investigate and divide the work amongst team members.

INVESTIGATE ASSESSMENT – maximum 6 marks

|  |  |
| --- | --- |
| **Mark** | **Descriptor** |
| 0 | You have not done any work at all. |
| 1 - 2 | * You explained the problem. * You collected **some** information from the Internet and copied the URLs into your document. |
| 3 - 4 | * You explained the problem in detail. * You collected **lots** of information from the Internet and copied the URLs into your document. * Some of your work has been copied and pasted |
| 5 - 6 | * You did not copy anything so everything is in your own words. * Your investigation document is neatly and creatively laid out. |

**Stage 2: Plan** (includes design and plan)

You will need to complete two sections (plan and design) in this stage. Have a meeting to discuss which card each member will focus on then complete each stage. You cards need to be consistent (show that they belong to your group) so make sure that in your meeting you decide the layout, colours and fonts everyone will use for their cards.

**Section 1: Design**

1. You will need to make three different designs of your card:

Make sure that you include all of the things the design specification asks you to include.

2. Choose the design you like the best and explain why you chose it.

DESIGN ASSESSMENT – maximum 6 marks

|  |  |
| --- | --- |
| **Mark** | **Descriptor** |
| 0 | * You have not done any work at all. |
| 1 - 2 | * You made one design * You included some of the design specifications in the design |
| 3 - 4 | * You made three different designs. * You included a lot of the design specifications. |
| 5 - 6 | * You made three designs. * You included all of the specifications. * You wrote one paragraph explaining which design you are going to make and why. |

**Section 2: Plan**

1. Create a plan:

You have to plan how you are going to use your time and resources. You have to think about how you are going to create the product and what you are going to do. There have to be logical steps in your thinking. For example, you can’t say you will print something out when you haven’t done it yet.

PLAN ASSESSMENT – maximum 6 marks

|  |  |
| --- | --- |
| **Mark** | **Descriptor** |
| 0 | * You have not done any work at all. |
| 1 - 2 | * You have made a plan that has the dates of the lessons and how long they last for. |
| 3 - 4 | * You have explained what you will be doing in each lesson. * You have explained what resources you will be using in each lesson. |
| 5 - 6 | * The timings you have used are realistic. * You have explained what you will be doing at home too. |

**Stage 3: Create**

You must have a meeting to discuss this stage before you begin. Remember to document your meeting and print it out so you can attach it to your documentation.

In this stage you will be making the cards. You will be using publisher to create the cards. You can use your designs to help you.

Don’t forget your cards have to be consistent (look like they belong together).

CREATE ASSESSMENT – maximum 6 marks

|  |  |
| --- | --- |
| **Mark** | **Descriptor** |
| 0 | * You have not done any work at all. |
| 1 - 2 | * You have created a card which has the basic details on it. * You have put some images on it. |
| 3 - 4 | * You have created cards that show you know how to use Publisher well. * Your cards show a consistency with the theme the team decided. * You have included images that are relevant to the card you created. |
| 5 - 6 | * You cards show that you have experimented with Publisher. * Your cards are creative and innovative. |

**Stage 4: Evaluate**

This is the final stage of your project. You have to evaluate how you worked in your project.

You must have a meeting to discuss this stage before you begin. Remember to document your meeting and print it out so you can attach it to your documentation.

In this stage you will be making the cards. You will be using publisher to create the cards. You can use your designs to help you.

Don’t forget your cards have to be consistent (look like they belong together).

EVALUATE ASSESSMENT – maximum 6 marks

|  |  |
| --- | --- |
| **Mark** | **Descriptor** |
| 0 | * You have not done any work at all. |
| 1 - 2 | * You have written some sentences about how you felt working in a group. |
| 3 - 4 | * You have written some sentences about how you feel you performed at the different stages of the project. * You have talked about your final product and why you think it is appropriate. * You have some feedback from others and explained what improvements you made to your cards. |
| 5 - 6 | * You have given suggestions about how your performance can be improved in the future * You talk about how you think these cards will benefit other students. |

**Attitude to technology**

You will be assessed as an individual in the classroom and as a team player. Your attitude in the classroom is important when working in technology. You will be assessed on two aspects:

1. PERSONAL ENGAGEMENT: Are you **motivated**? Are you able to work **independently**? Do you have a **generally positive attitude**?

2. ATTITUDES TOWARDS SAFETY: Do you work **safely** in the classroom? Is your bag always under your desk? You don’t touch anyone else’s computer. You **co-operate** with others politely. You show **respect** for others by listening to what they say and not interrupting them. You are able to work positively within a team.

ATTITUDE TO TECHNOLOGY ASSESSMENT – maximum 6 marks

|  |  |
| --- | --- |
| **Mark** | **Descriptor** |
| 0 | * You are not engaged in the project. * Your attitude towards safety is poor. |
| 1 - 2 | * You **occasionally** display a **satisfactory** standard in **one** of the aspects listed above. |
| 3 - 4 | * You **frequently** display a **satisfactory** standard in **both** of the aspects listed above. |
| 5 - 6 | * You **consistently** display a **satisfactory** standard in **both** aspects listed above. |

Marks

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Criterion** | **TEAM MEMBERS** | | | |
| **1.** | **2.** | **3.** | **4.** |
| 1. Investigate (6) |  |  |  |  |
| 2. Design (6) |  |  |  |  |
| 3. Plan (6) |  |  |  |  |
| 4. Create (6) |  |  |  |  |
| 5. Evaluate (6) |  |  |  |  |
| 6. Attitude (6) |  |  |  |  |
| **Total (36)** |  |  |  |  |
| **Level** |  |  |  |  |

|  |  |
| --- | --- |
| Level | Marks |
| 1 | 0 - 3 |
| 2 | 4 - 8 |
| 3 | 9 - 13 |
| 4 | 14 - 19 |
| 5 | 20 - 24 |
| 6 | 25 - 29 |
| 7 | 30 - 36 |